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Young Chan KO

Sheng-Hsin HU

Kambiz B. MAKOUI

Serial No.:

10/025,213

Filing Date: 18 December 2001

Title:

WOOD PULP FIBER MORPHOLOGY

MODIFICATIONS THROUGH THERMAL

**DRYING** 

## THIRD INFORMATION DISCLOSUR

**Assistant Commissioner for Patents** Washington, D.C. 20231

Dear Sir:

In accordance with Rules 1.56 and 1.98, the references listed on Form PTO-1449 are hereby brought to the attention of the Examiner as being possibly material to examination of the subject patent application.

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on

Serial No.: 10/025,213

Form PTO-1449 (4 pages) is enclosed with a copy of each and every reference cited on Form PTO-1449.

Respectfully submitted,

Melanie I. Rauch

Registration No. 40,924

Pauley Petersen Kinne & Erickson 2800 West Higgins Road Suite 365 Hoffman Estates, Illinois 60195 TEL (847) 490-1400 FAX (847) 490-1403

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	AR	A.M. Scallan, The Structure of th Wood Science, Vol. 6, No. 3, p. 266	A.M. Scallan, The Structure of the Cell Wall of Wood - A Consequence of Anisotropic Inter-Microfibrillar Bonding?, Wood Science, Vol. 6, No. 3, p. 266, 267, 269 & 271 (January 1974).							
	AS	Alfred J. Stamm and William E. S and Technology, Vol. 3, p. 301-323	Villiam E. Smith, Laminar Sorption and Swelling Theory for Wood and Cellulose, Wood Science b. 301-323 (1969).							
	АТ	A. J. Kerr and D. A. I. Goring, <i>Th</i> 563-573 (1975).	ne Ultrastruc	tural Arrange	ement of the	Wood Cell V	Vall, Cellulose Cl	nem. Technol	., 9, p.	
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	AR	G. Graham Allan and Young C. Structure and Pore Size Distribution	Ko, The Micr n in Pulp and	oporosity of Pulp. The Fo	rces Influen Fechnol., 29	cing the Intra and p. 479-485 (199	d Inter-Fiber I 15)	Pore		
	AS	D. A. I. Goring, R. Vuong, C. Ga by Electron Microscopy, Journal of	ancet and H. 0 Applied Polyr	Chanzy, <i>The Flatness of L</i> mer Science, Vol. 24, p. 9	ignosulfona 31-936 (197	te Macromolecul 9).	es as Demon	strated		
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	АТ	B. D. Favis and D.A.I. Goring, A Paper Science, p. 139-143 (Septer	Model for the nber 1984).	e Leaching of Lignin Macr	romolecules	from Pulp Fibers	, Journal of P	ulp and		
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	AR	D. A. I. Goring, A Speculative Pict	ture of the De	elignificatio	on Process, Cel	iulose Chem	istry and Techno	ology, p. 273	-277.
	AS	J. E. Stone and A. M. Scallan, A S T407 (1965).	Study of Cell	Wall Struc	ture by Nitroge	n Adsorption	, Pulp Paper Ma	gazine, Can	ada,
	AT	Leonard Haas, Iggesund Pioneers	s Flash Drying	g of Fully I	Bleached Kraft	<i>Pulp</i> , Progre	ess in Pulping (4	pages) (197	1).
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	AR	H-E. Engström, O. B. Hovstad an Paper, Part 1, (4 pages) August 21 a	nd L. Ivnäs, FI	ash Drying System for I		actors, reprinted	l from Pulp a	and		
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	AS	Properties, reprinted from Pulp and P	H-E. Engström, O. B. Hovstad and L. Ivnäs, Flash Dried Pulp-Some Revealing Facts on Strength and Beating Properties, reprinted from Pulp and Paper, Part 2, (4 pages) (1967).							
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